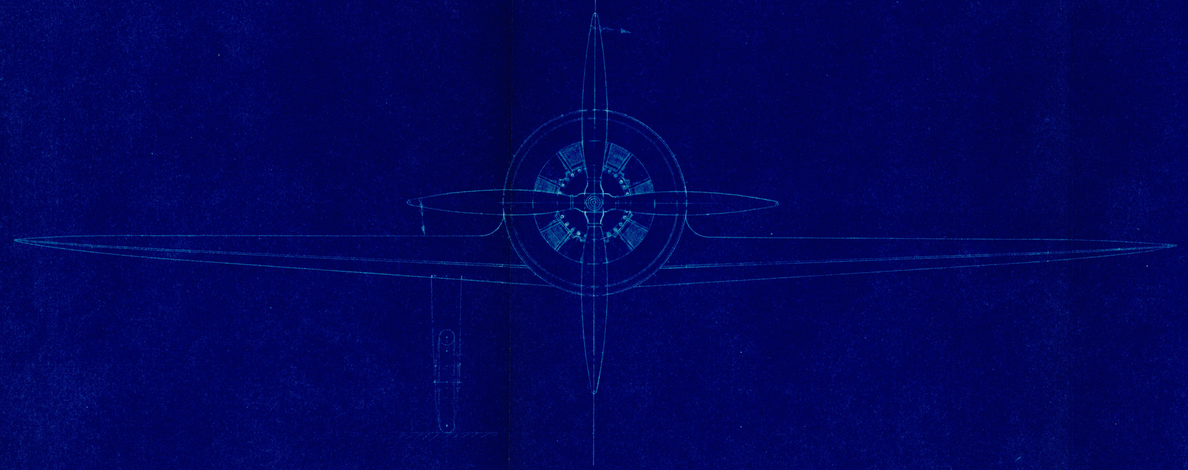
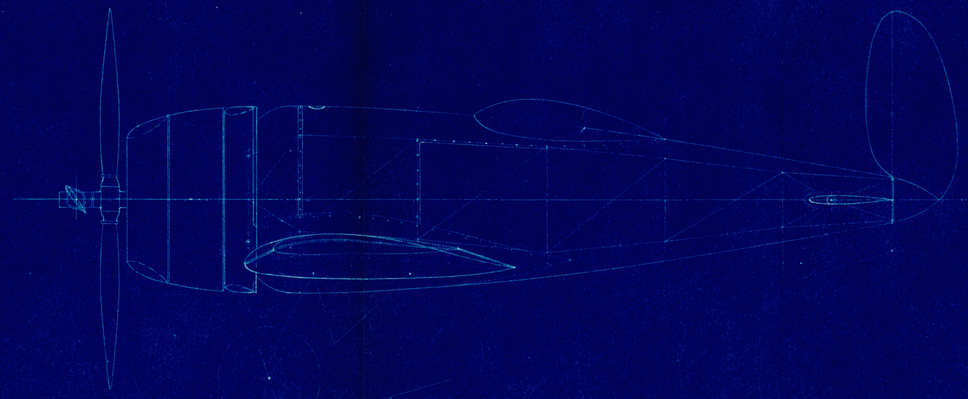
MATERIAL	HEAT TREAT	FINISH	DRAWN	CHECKED	ENGINEER	APPROVED	EXPERIMENTAL RACER LOW WING MONOPLANE	PAGE 1 MODEL S-2 REPORT NO. 2
			W.F. Schult 3/10/34	W.F. Schult 6/10/34	W.F. Schult 6/10/34	W.F. Schult 6/11/34		
			4000#			1" = 20"		2001
			EST'D WT.	ACTUAL WT.	LIMITS	SCALE	ASSEMBLY NO.	DWG. NO.





- GENERAL SPECIFICATIONS -

PERFORMANCE
(Estimated)

Maximum Speed (Sea Level)	300 M.P.H.
Stalling Speed (" ")	105 M.P.H.
Rate of Climb (" ")	2400'/Min.
Absolute Ceiling	24,000'
Maximum Speed (7000' Altitude)	320 M.P.H.
Crusing Speed (7000' Altitude - 2180 R.P.M. of Motor)	275 M.P.H.
Distance (Crusing Speed on 204 Gals. of Gas.)	1142 Miles
Power 1-800 H.P. Pratt+Whitney 14 Cyl. Motor	R-1830.

GENERAL DIMENSIONS

Length	20'-4"
Span	26'-4"
Chord (1½ Inch) Root - 6'-0", Tip - 3'-7", Mean -	4'-10"
Height	10'-1"
Area (Wing - 94.75", Allerons - 8.75")	103.5"
(Rudder)	6.2"
(Elevator)	14.0"

WEIGHT
(Estimated)

Empty			2399#
Useful Load (Fixed)	Gasoline 204 gals @ 6# / gal	= 1224#	
	Oil 25 " @ 7.5# / "	= 181#	
	Pilot 1 @ 170	= 170#	
	Parachute 1 @ 18#	= 18#	
			1601#
Gross Load			4000#